## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant Kair V. Wood et al.

Title:

COVALENT TETHERING OF FUNCTIONAL GROUPS TO PROTEINS

Docket No.:

341.020US1

Serial No.: 10/768,976

1, GW

Filed:

January 30, 2004

Due Date: N/A

Examiner:

Unknown

Group Art Unit: 1645

MS Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

X A return postcard.

X A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 25 cited documents, including an International Search Report.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

Atty: Janet E. Embretson

Reg No. 39.665

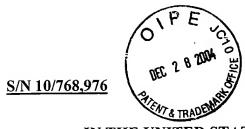
CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 17 day of December, 2004.

Name

gnature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Keith V. Wood et al.

Examiner:

Unknown

Serial No.:

10/768,976

Group Art Unit:

1645

Filed:

January 30, 2004

Docket:

341.020US1

Title:

COVALENT TETHERING OF FUNCTIONAL GROUPS TO PROTEINS

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Several of the attached documents were discovered as a result of a Search Report in Applicants' corresponding foreign patent application. Enclosed for the Examiner's information is a copy of the cited documents and the Search Report.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

Title: COVALENT TETHERING OF FUNCTIONAL GROUPS TO PROTEINS

Page 2 Dkt: 341.020US1

Thus, Applicant believes that the U.S. Patent & Trademark Office has waived the requirement under 37 C.F.R. 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication. The waiver is provided in a pre-OG notice from the U.S. Patent & Trademark Office entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" and dated July 11, 2003. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

KEITH V. WOOD ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6959

Date DUMNY 17, 7014 I

Janet E. Embretson

Reg. No. 39,665

<u>CERTIFICATE UNDER 37 CFR 1.8:</u> The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this <u>17</u> day of December, 2004.

Name AYES NAUX

Signature

PTO/SB/08A(10-01)
Approved for use through 10/31/2002. OMB 651-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE
the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO
INFORMATION DISCLOSURE 10/768,976 **Application Number** STATEMENT BY APPLICANT
(Use as many sheets as necessary) January 30, 2004 **Filing Date** Wood, Keith **First Named Inventor** 1645 **Group Art Unit** Unknown **Examiner Name** Attorney Docket No: 341.020US1 Sheet 1 of 2

	US PATENT DOCUMENTS								
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate					
	US-5,503,977	04/02/1996	Johnsson, N., et al.	04/22/1994					
	US-5,523,209	06/04/1996	Ginsberg, M. H., et al.	03/14/1994					
	US-5,700,908	12/23/1997	Ruoslahti, E. I., et al.	06/01/1995					
	US-5,821,047	10/13/1998	Garrard, I. J., et al.	06/05/1995					
	US-5,932,421	08/03/1999	Ginsberg, M. H., et al.	10/09/1997					
	US-6,333,154	12/25/2001	Ladant, D., et al.	12/01/1998					

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>				
	WO-01/60415A1	08/23/2001	Lollo, C. P., et al.					
	WO-2004/009788A2	01/29/2004	Tozer, E., et al.					
	WO-2004/072232A2	08/26/2004	Wood, K. V., et al.					

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		The Second Symposium on Biological Imaging: New Dimensions in In Vivo	
		Imaging, Lecturer Abstracts, obtained from www.promega-	
		rd.info/bioimage2003/abstracts/lecture/default.asp (2003),5 Pages	
		"International Search Report from corresponding PCT Application No. PCT/US2004/002607", (October 26, 2004), 4 Pages	
		AFFHOLTER, J. A., et al., "Recombinant Haloaliphatic Dehalogenases", <u>EMBL</u> <u>Database</u> , Genetic Sequence, Entry Name: EMBL:BD057138,(Sep. 4, 2002),1 p.	
		BARRETT, A. G., et al., "Synthesis and Characterization of a New Polymer	1
		Support for a Metallocene Catalyst", <u>Tetrahedron, 58, (May 6, 2002),3785-3792</u>	
		CAMPBELL, R. E., et al., "A Monomeric Red Fluorescent Protein", PNAS,	
		99(12), (2002),7877-7882	
		FARINAS, J., et al., "Receptor-mediated Targeting of Fluorescent Probes in Living Cells", The Journal of Biological Chemistry, 274(12), (1999),7603-7606	
		GAMBHIR, S. S., "Molecular Imaging of Cancer With Positron Emission Tomography", Nature Reviews, 2, (2002),683-693	
		GITE, S., et al., "Ultrasensistive Fluorescence-Based Detection of Nascent Proteins in Gels", Analytical Biochemistry, 279, (2000),218-225	
		GURSKAYA, N. G., et al., "GFP-like Chromoproteins as a Source of Far-red	
		Fluorescent Proteins", FEBS Letters, 507, (2001),16-20	
		HOLLOWAY, P., et al., "A Colorimetric Assay for Detecting Haloalkine	
		Dehalogenase Activity", Journal of Microbiological Materials, 32, (1998),31-36	<u>L</u> .

**DATE CONSIDERED EXAMINER** 

PTO/SB/08A(10-01)
Approved for use through 10/31/2002, OMB 951-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE.
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE 10/768,976 **Application Number** STATEMENT BY APPLICANT (Use as many sheets as necessary) January 30, 2004 **Filing Date First Named Inventor** Wood, Keith 1645 **Group Art Unit** Unknown **Examiner Name** Attorney Docket No: 341.020US1 Sheet 2 of 2

	OTHER	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HYNKOVA, K., et al., "Identification of the Catalytic Triad in the Haloalkane	
		Dehalogenase from Sphingomonas paucimobilis UT26", FEBS Letters, 446,	
		(Mar. 5, 1999),177-181	
		ICHIYAMA, S., et al., "Novel Catalytic Mechanism of Nucleophilic Substitution	
		by Asparagine Residue Involving Cyanoalanine Intermediate Revealed by Mass	
		Spectrometric Monitoring of an Enzyme Reaction", Journal of Biological	
		Chemistry, 275, (Dec. 29, 2000),40804-40809	
		KURIHARA, T., et al., "Comprehensive Site-directed Mutagenesis of L-2-Halo	
		Acid Dehalogenase to Probe Catalytic Amino Acid Residues", <u>Journal of</u>	
		Biochemistry, 117, (Mar. 15, 1995),1317-1322	ļ
		LIN, Z., et al., "Methods for Labeling Quantum Dots to Biomolecules", Journal of	
		Nanoscience and Nanotechnology, 4(6), (2004),641-645	
		MATHIEU, S., et al., "Monitoring E-Selection-Mediated Adhesion Using Green	
		and Red Fluorescent Proteins", Journal of Immunological Methods, 272,	
		(2003),81-92	-
		MICHL, J., et al., Electronic Aspects of Organic Photochemistry, (John Wiley &	
		Sons, 1990),61-78	-
		PRIES, F., et al., "Activation of an Asp-124-> Asn Mutant of Haloalkane	
		Dehalogenase by Hydrolytic Deamidation of Asparagine", <u>FEBS Letters, 358,</u> (1995),171-174	
		PULIG, O., et al., "The Tandem Affinity Purification (TAP) Method: A General Procedure of Protein Complex Purification", Methods, 24, (2001),218-229	
·····	<del>                                     </del>	SANTRA, S., et al., "Luminescent Nanoparticle Probes for Bioimaging", Journal	
		of Nanoscience and Nanotechnology, 4(6), (2004),590-599	
		WEISSLEDER, R., et al., "Shedding Light Onto Live Molecular Targets", Nature	1
		Medicine, 9(1), (2003),123-128	
		YANG, G., et al., "Identification of Active Site Residues Essential to 4-	Ī
		Chlorobenzoyl-Coenzyme A Dehalogenase Catalysis by Chemical Modification	
		and Site Directed Mutagenesis", Biochemistry, 35, (1996),10879-10885	
		YANG, M., et al., "Whole-Body Optical Imaging of Green Fluorescent Protein-	
		Expressing Tumors and Metastases", PNAS, 97(3), (2000),1206-1211	

EXAMINER DATE CONSIDERED